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FEDERAL SERVICE  
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PROPERTY,  
PATENTS AND TRADE MARKS  
(ROSPATENT)

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## **(12) DESCRIPTIONS OF INVENTION**

**To the patent of Russian Federation****Status: of 28.03.2007 - has terminated**

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### **(54) METHOD OF AND MAGNETOHYDRODYNAMIC GENERATOR FOR PRODUCING ELECTRICAL ENERGY**

FIELD: power engineering; magnetohydrodynamic generators. SUBSTANCE: closed toroidal channel is connected to several combustion chambers and filled with hydrogen. Oxidizer is sprayed into combustion chamber and products of oxidation reaction in the form of shock waves arrive at toroidal channel. Oxidizer feed rate and sequence are chosen so that shock waves form alternating high- and low-pressure regions moving along channel. Volume charge is produced in channel by means of thermionic cathode 4; this charge induces electric current in output winding of magnetic circuit 15 due to electromagnetic interaction with magnetic circuit 5 embracing the channel and carrying field windings 14. Inner surface of body of channel 2 is coated with insulating material 3 that divides channel into isolated sections. Channel sections are series-connected to thermionic cathodes and field windings forming several electric circuits. EFFECT: improved design, facilitated procedure. 2 cl, 5 dwg

### **DRAWINGS**

Drawing 1[Full documents in russian](#)

Фиг. 1

